

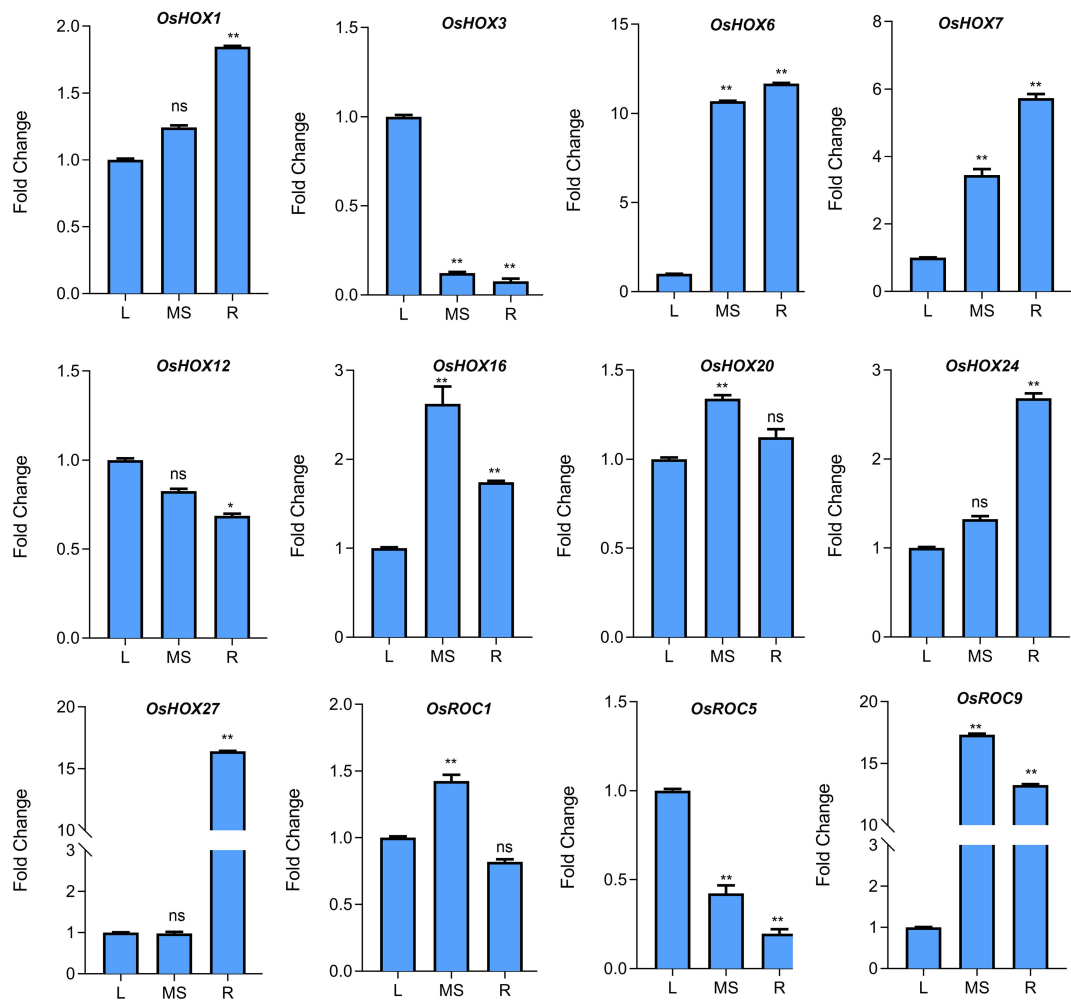


Fig. S2 The expression level of some crew members of HD-ZIP family in different tissues of rice. *ACTIN1* was used as an internal reference. L (Leaf), MS (Mature Seed), R (Root). Data are presented as the means $\pm$ SD of three biological replicates. ns: no significant difference. Significant differences: *, $P < 0.05$; **, $P < 0.01$ (Student's *t*-test).

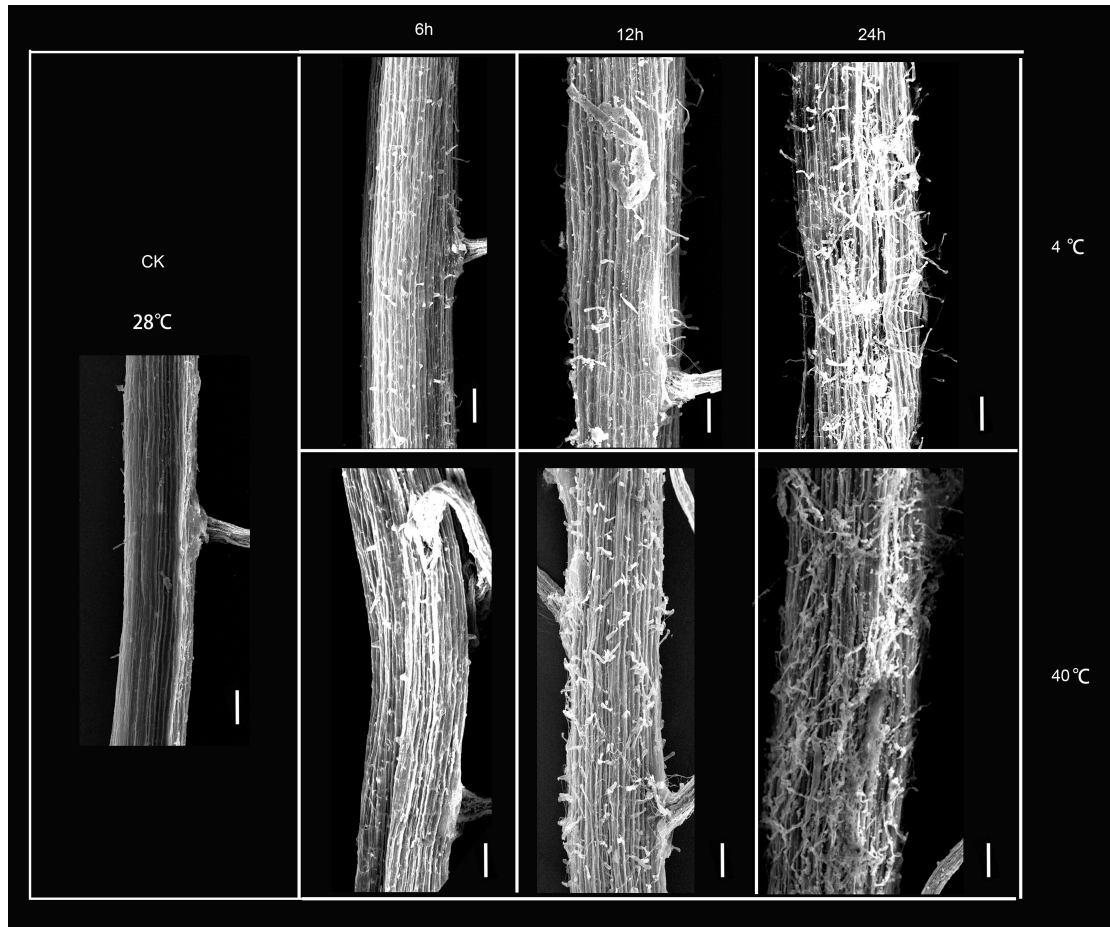


Fig. S3 The phenotype observation of roots after different stress treatments. CK is a control, rice roots grown for 12 days at 28°C (12h light/12h dark). In the experimental group, rice seedlings after 12 days of normal growth were transplanted at 4°C and 40°C, and harvested at 6h, 12h and 24h. Bars, 1mm.

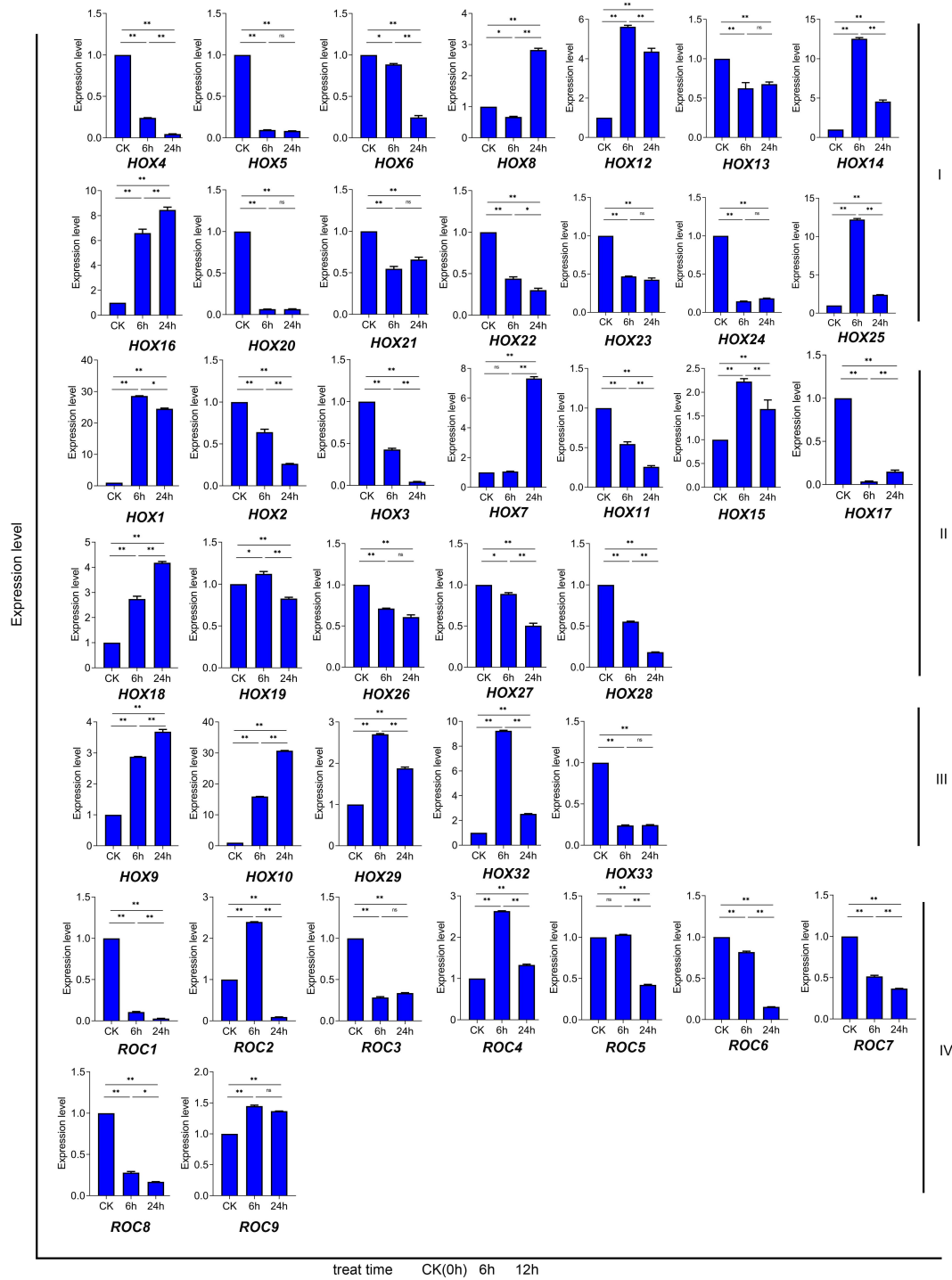


Fig. S4 The expression level of HD-Zips in roots under 4°C stress treatment for 0h, 6h and 24h. Data are presented as the means $\pm$ SD of three biological replicates. ns: no significant difference. Significant differences: *, $P < 0.05$; **, $P < 0.01$ (Student's t -test).

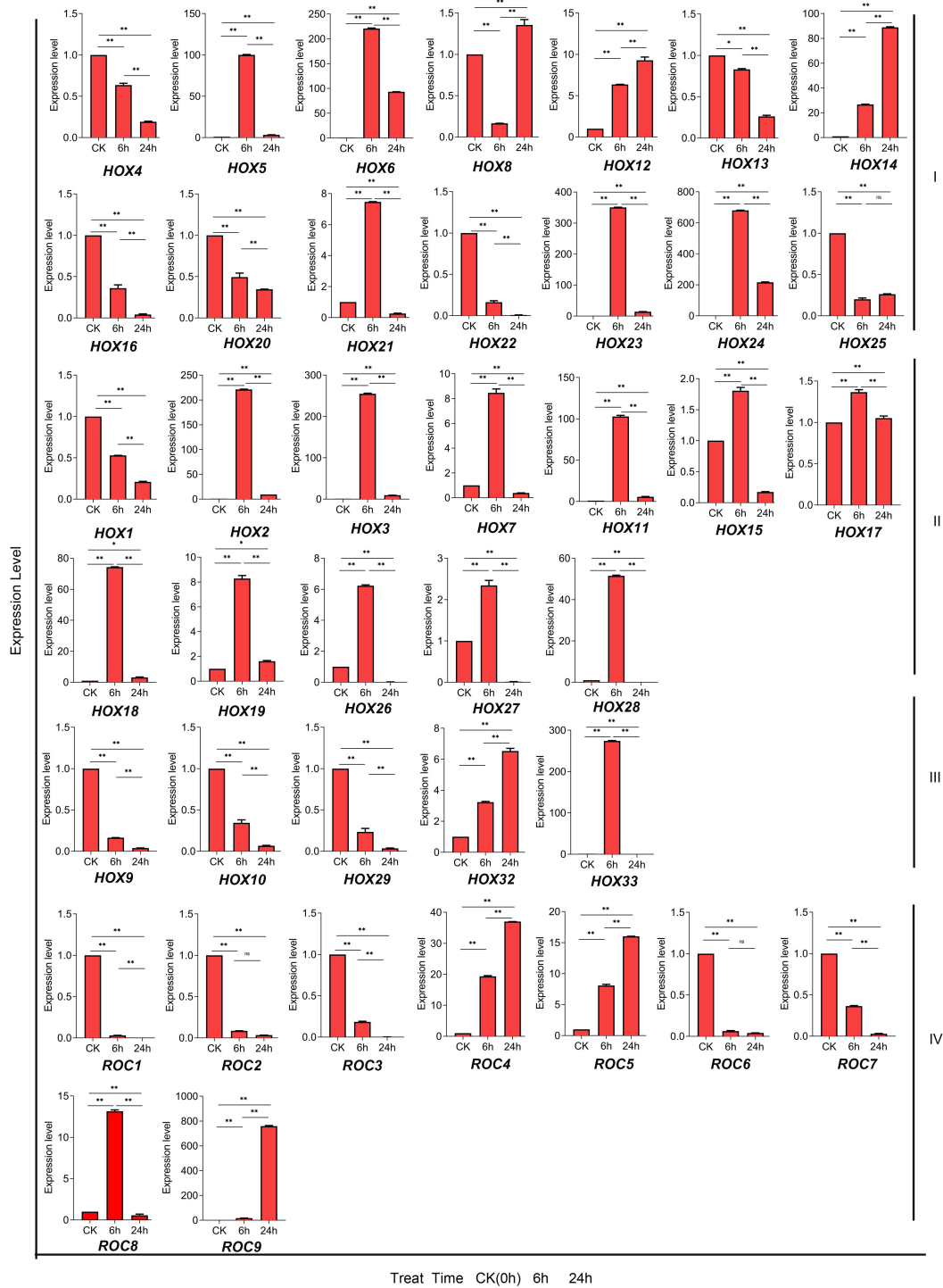


Fig. S5 The expression level of HD-Zips in leaves under 40°C stress treatment for 0h, 6h and 24h. Data are presented as the means $\pm$ SD of three biological replicates. ns: no significant difference. Significant differences: *, $P < 0.05$; **, $P < 0.01$ (Student's t -test).

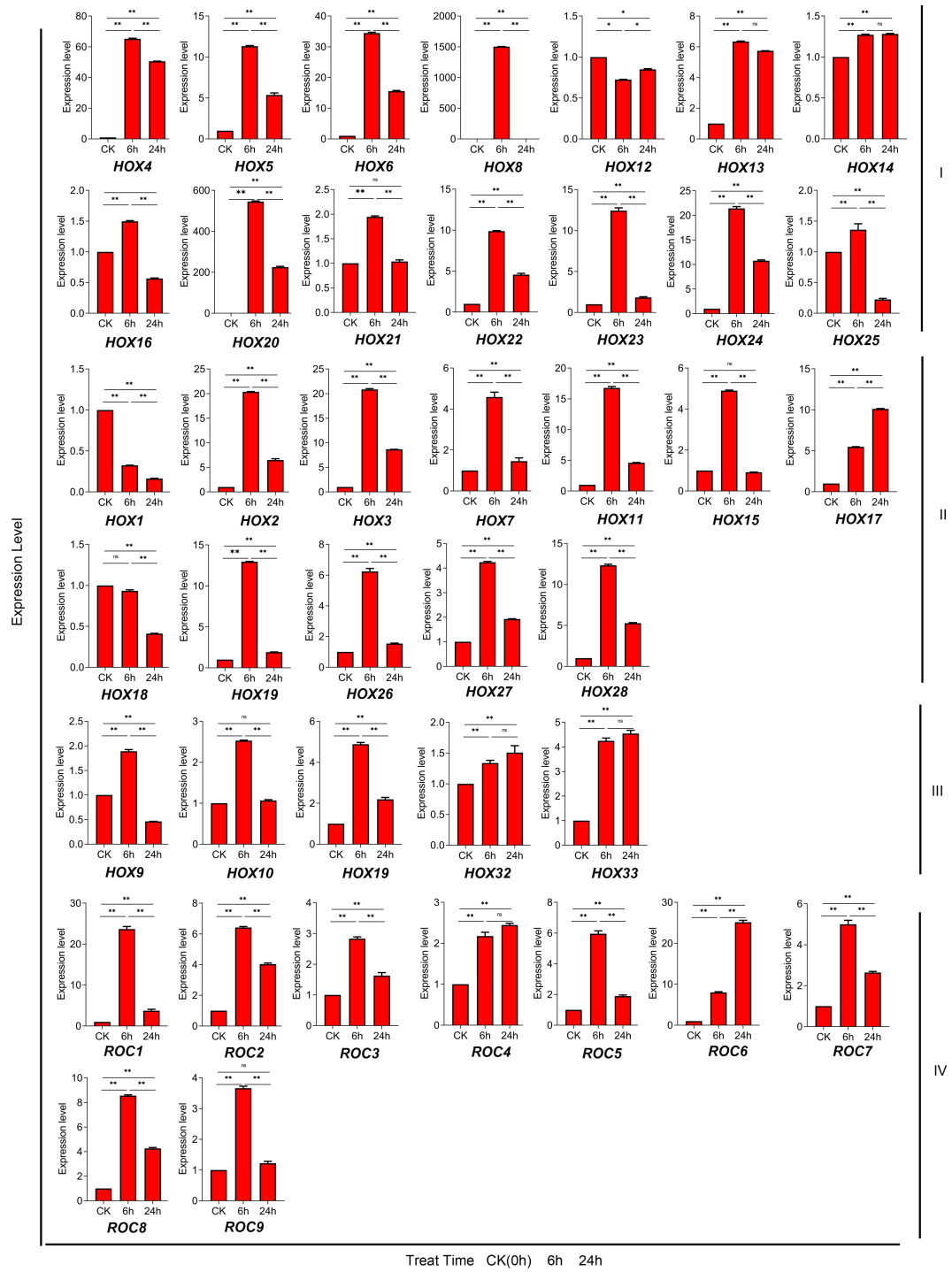


Fig. S6 The expression level of HD-Zips in roots under 40°C stress treatment for 0h, 6h and 24h. Data are presented as the means $\pm$ SD of three biological replicates. ns: no significant difference. Significant differences: *, $P < 0.05$; **, $P < 0.01$ (Student's t -test).

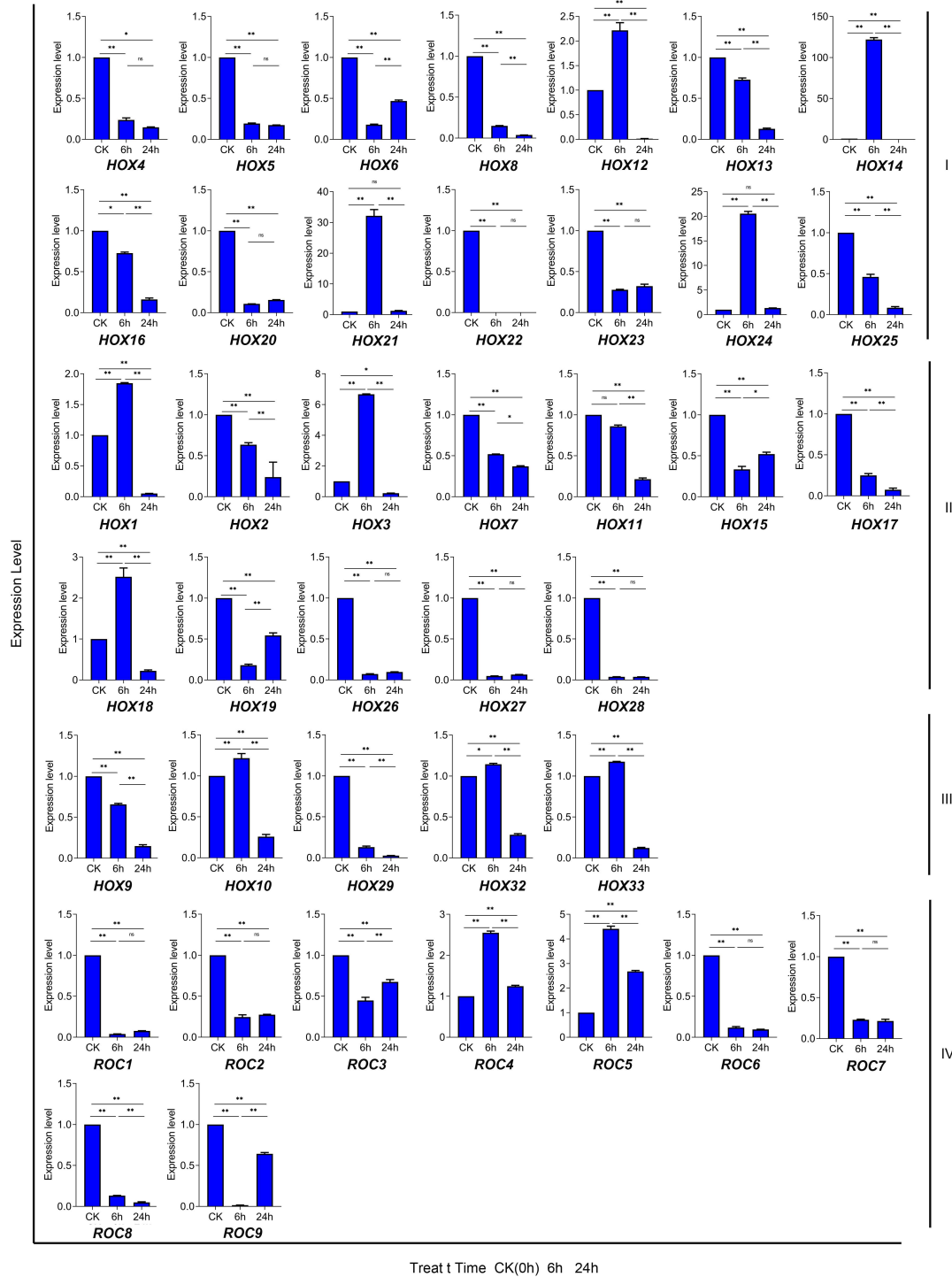


Fig. S7 The expression level of HD-Zips in leaves under 4°C stress treatment for 0h, 6h and 24h. Data are presented as the means $\pm$ SD of three biological replicates. ns: no significant difference. Significant differences: *, $P < 0.05$; **, $P < 0.01$ (Student's t -test).